

### Claim Amendments

1. (original) A flax seed having a linolenic acid content of greater than 70% of the total fatty acid content of said seed.

2. (original) The flax seed of claim 1 wherein the linolenic acid content is between 70%-80%.

3. (amended) A flax seed that is the product of a plant line designated M5791 (American Tissue Culture Collection Deposit # PTA-5755), wherein the linolenic acid content of said flax seed is greater than 70%.

4. (original) A flax plant which produces seeds having a linolenic acid content of greater than 70% of the total fatty acid content of said seed.

5. (original) The flax plant of claim 4 wherein the linolenic acid content is between 70%-80%.

6. (amended) A flax plant designated M5791 (American Tissue Culture Collection Deposit # PTA-5755), wherein the linolenic acid content of said flax seed is greater than 70%.

7. (amended) Progeny of a flax plant designated M5791 (American Tissue Culture Collection Deposit # PTA-5755), wherein said progeny produce seeds having a linolenic acid content of greater than 70% of the total fatty acid content of said seed.

8. (original) The progeny according to claim 7 wherein the linolenic acid content is between 70%-80%.

9. (unamended) Seed from the flax plants of any one of claims 4, 5, 6, 7 or 8.

10. (previously cancelled)

11. (previously cancelled)

12. (previously cancelled)

13. (amended) A method of producing a flax plant line comprising the steps of:

(a) crossing a plant of a flax plant line designated M5791 (American Tissue Culture Collection Deposit # PTA-5755), wherein the linolenic acid content of said flax seed is greater than 70%, or progeny thereof, with an agronomically elite flax plant; and

(b) selecting at least one descendant of said cross, said descendant producing seeds having a linolenic acid content of greater than 70% relative to the total fatty acid content of said seed.

14. (previously cancelled)

15. (previously added)      The flax seed of claim 1 wherein the linolenic acid content is between 70%-75%.

16. (previously added)      The flax plant of claim 4 wherein the linolenic acid content is between 70%-75%.

17. (previously added)      The progeny according to claim 7 wherein the linolenic acid content is between 70%-75%.

18. (previously added)      The method according to claim 13 wherein the linolenic acid content is between 70-80%.

19. (previously added)      The method according to claim 13 wherein the linolenic acid content is between 70-75%.